

HEAT OF THE SUN

Old Sol Has a Strong Pull at the Capitol in Washington.

Not many people have any idea as to the enormous amount of heat that the sun sends off into space. The earth gets only a very small portion of it. The heat of a pin placed twenty feet away from an electric light gets in proportion to the light on the surrounding walls of a room about what the earth gets of the sun's light and heat radiated into space. Yet that portion the earth does get is great enough to cause great structures to move.

In fact, all stone or metal buildings are constantly changing their positions under the hot rays of the sun. The great dome of the capitol building at Washington is the largest surface of cast iron in the world, and the effect of the continuous heat of a hot summer day can best be appreciated, says Harper's Weekly, when it is known that this mammoth mass really sways back and forth under the scorching rays until the top feather in the cap of the statue of Freedom describes an ellipse the diameter of which on a hot day varies from four to eight inches.

The giant plinth base of the dome, resting on the roof of the old sandstone building, measures 136 feet on a side. The greatest diameter of the round dome is 125 feet, while the whole iron structure is 218 feet high from the old capitol's roof to the base of Freedom on the apex. The cast iron covering this surface is made in thin sheets, offering a good conductor for the heat, which swells even the bolts and beams of the inside before the sun has made its circuit.

The southern side of the dome suffers most from the heat, being exposed longer to the sun, which passes south of the zenith while on its journey from the east to the west. If the metal were exposed to a constant heating the result of the continuation of such expansion as that received on very hot days might prove disastrous, but as it is little if any permanent injury is done, since the iron returns regularly to its normal position as the cool night comes on.

But what seems more remarkable is the fact that marble is also changed in volume so perceptibly by the sunlight that the mammoth shaft of the Washington monument sways back and forth in the sun on a hot day. The outer surface being of hard marble the expansion is much greater than it would be had granite instead of marble been used. On a hot summer day the sharp aluminum apex that crowns the obelisk points to a position at least four inches north of normal, but always returns to its proper position in the cool of the night.

From the extreme top of the monument inside a long pipe line runs perpendicularly to the bottom, leading to a small closet behind the elevator. This contains a long pendulum, whose bob hangs in a vessel of mercury, which prevents its oscillation. Two stationary transits with highly magnifying lenses are focused directly upon the suspended wire, and through these each quiver of the monument is detected being magnified on a fine scale graduated to thousandths of an inch.

Every morning at 10 o'clock a statement of this plummet line is taken and reported to the war department, and it was by this means that the effect which the sun's rays have on the huge white shaft was discovered. This plumb bob, of course, was placed in the monument for the purpose of detecting any settling it might undergo, and, although the great weight of its mass has pressed the ground for many decades, it has settled only a slight fraction of an inch in one corner.

This seems extraordinary when it is realized that its weight of 81,720 tons rests on a foundation only 126½ feet square and 28 feet deep from a height almost fifteen times that of the depth. The whole rests on the sandy bank of the Potomac river, with the enormous pressure of five tons to the square foot. Not only does the sun's heat

BULGARS METE OUT TERRIBLE PUNISHMENT TO TURKS WHO MASSACRE CHRISTIANS



Taking down bodies of Turks hung for massacre of Christians.

Constantinople, Dec. 13.—Stories of fiendish outrages against Christian inhabitants of many Turkish towns by Turkish troops are drifting into Constantinople. Houses are being burned, Christian men and women held for ransom or massacred, women assaulted and wholesale pillage carried on.

In many instances Bulgarian soldiers have captured the worst offenders, and in all such cases terrible punishment has been meted out. Such captives are always either shot or hung. In the accompanying picture soldiers are seen taking down two Turkish Bashibazouks, who have been hung because of their connection with massacres of Christians.

The Turks, however, are not the only ones to commit outrages. "The most appalling horrors of this or any other war known to history will shortly be pushed into the foreground of public discussion and will cast an ugly blot on the fair fame of the Balkan Christians," writes a war correspondent of the London Telegraph. He adds:

"From Constantinople and Bucharest narratives have reached me of inhuman massacres of the unarmed Moslem population by Christian soldiers in the environs of Salonica. Tortures of the most fiendish kind are reported. The reports of the indignities offered to females cannot be described. Among the most soul-searing enormities which marked the diabolical saturnalia is the deliberate burial of the living wounded."

AN EMPEROR'S TASTE.

It Was the Origin of a Once Common Saying in Austria.

An anecdote which was current of Ferdinand I. of Austria at one time greatly delighted his subjects and gave rise to a common saying. One summer day he was hunting in the Styrian mountains and was overtaken by a violent thunderstorm. He sought refuge in a farmhouse whose occupants were just then at dinner, and his fancy was caught by some smoking dumplings made of coarse flour. He tasted them, liked them and asked for more, and when he got to Vienna, to the horror of the royal cooks, he ordered the same dumplings to be served up daily. The courtiers were scandalized that such a coarse dish should figure on the menu, and even his physicians remonstrated against the use of such food.

The emperor had always been the most pliant of men, but he now showed that he had a will of his own and persisted in gratifying his new fancy. Finally the physicians pretended that it was dangerous to his health to be living on dumplings and insisted on his giving them up. The hitherto docile sovereign stamped his foot and declared that he would never sign another

sway the big obelisk, but at times, when a stiff winter gale was blowing, it has been reported as much as two inches out of plumb.

official document if his diet were altered.

"Emperor I am," he shouted, "and dumplings I will have!" To prevent a stoppage of the government machinery opposition was withdrawn, and his majesty clung tenaciously to his dumplings. Then the imperial phrase became proverbial, and thereafter when any one insisted on gratifying a silly whim some one was sure to say:

"Emperor I am, and dumplings I will have!"

Profanity and Thought.

Just as soon as a man starts to swearing he stops thinking. Didn't you ever notice it? Well, just notice and see. We don't endeavor to explain it, but it is so. There must be some psychological explanation for it—as, for instance, just at that moment the devil gets into the brain and scrambles it up so it cannot think. It is just like him to do it, for his greatest hold in this world is murky and disreputable thinking.—Ohio State Journal.

Where a Trunk Is a Box.

Don't look for the ticket agent at an English railway station, so that you can buy a ticket to your destination. Look for the "looking agent" and "book" to the point, and, keeping in mind that what you really want is the baggage car, hunt up the "baggage van," and, having found it, remember that if your trunk is in it it is in it as

Jewelry Sale Now On

The receiver's sale of the Ingalls' Jewelry stock is being conducted at the old stand in the Safety building. Entire stock—every dollar's worth must be disposed of before Dec. 25.

Store room must be vacated Dec. 30. Locketts, chains, rings, fobs, watches, emblems, bracelets, brooches, hat pins, studs, ear drops, belt pins, scarf pins, link buttons, etc., in solid gold and gold filled

At Auction Prices

Cut glass, hand painted china, novelties, solid silver tableware. Hull Bros.' umbrellas, old spoons, purses, brushes, toilet sets, small gilt and mantel cocks, etc., about

Half Price

When the stock gets low the remainder will be sold in bulk or at auction—the object of this sale is to allow early buyers the pleasure of selecting at leisure and in their own way from what is conceded one of the most tasteful and reliable stocks in the community.

FRED WOLTMAN
Receiver

"Box," not as a trunk.—New York Post.

His Excuse.

"You seem like a spiritless creature. I don't believe you've got enough ambition to open your door when Opportunity knocks."

"Don't be too hard on me, ma'am. I ain't never had a door."—Cleveland Plain Dealer.

The Indian Runner.

A certain variety of duck, called the Indian Runner, will produce more eggs than a Leghorn hen, according to a writer in the Country Gentleman, and the young ducklings grow four times as fast as chickens.

Put Himself In Bad.

The Spinster—Your face is so familiar to me, professor, I'm sure we've met before. Distinguished Foreigner—Very likely. I was in his country when I was a young chap.—London Opinion.

Misery Ahead.

"More tough luck," whispered his wife. "Well, what now?" he muttered. "You know Miss Green never sings without her music?" "Yes." "Well, she's brought her music."—Detroit Free Press.

The Point of View.

"Say, pa, what is the difference between a visit and a visitation?" Fond Parent—A visit, my boy, is when you go to see your Grandmother Jones, and a visitation is when your Grandmother Jones comes to see us.—New York Times.

These Boys.

Howard—Hasn't Bachelor waited rather long before choosing a wife? Coward—Bless you, no! He's only had a marrying income since he was sixty.—Life.

Partly True Any Way.

Mrs. Blowitt—I see by this magazine that wearing hats makes one's hair gray. Mr. Blowitt—Well, the expensive ones that you have been wearing make my hair gray.

The Retort.

Wife—It makes me so unhappy to think that I have married a fool. Husband—Don't worry about that. Only a fool would have married you.—Der Guckkasten.

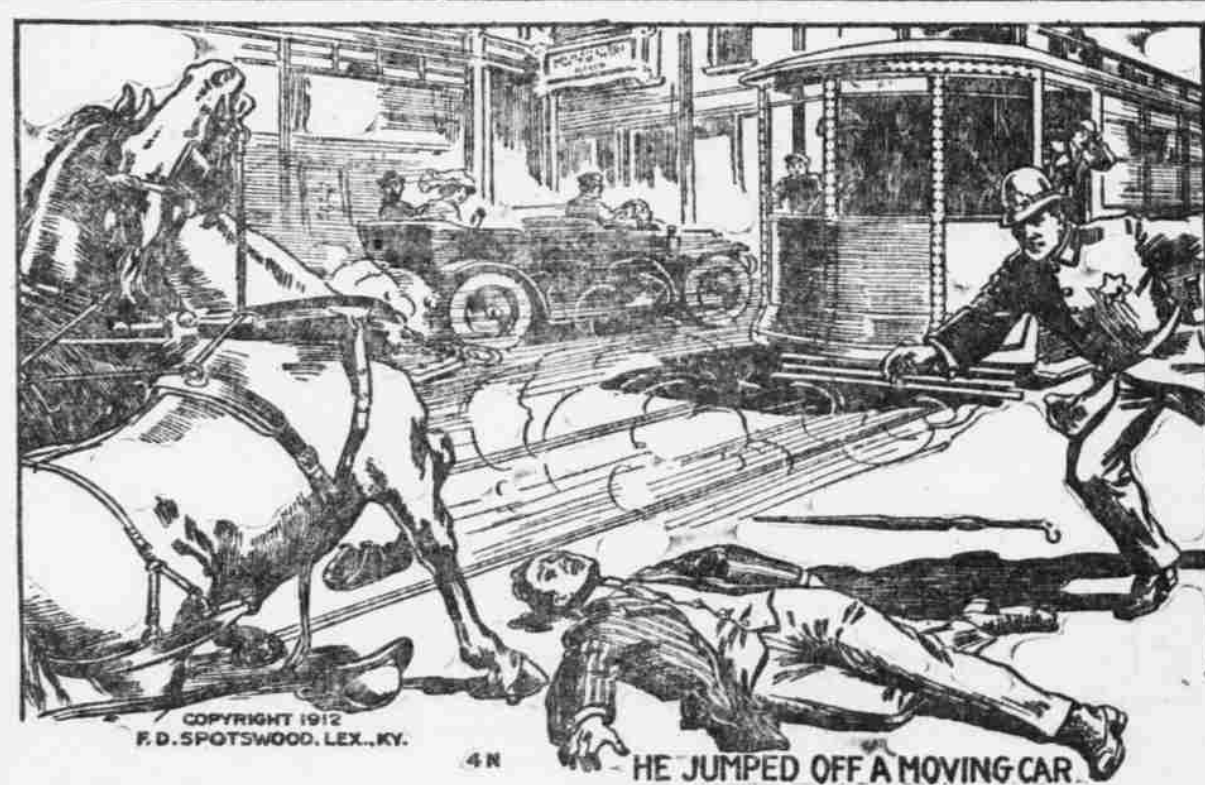
All Settled.

Severe Father—Katherine, what is the meaning of the diamond ring on your finger? Willful Daughter—It means, papa, that Jack has something to ask you that it will do no good to refuse.—Boston Transcript.

Duluth—The wireless station received word that the ships which were in Bete Grise, started for Duluth. Boats known to be in the fleet are Mendota, Alva, Castalia, North Star, Upson,

Yale, Sultana, W. L. Smith and W. P. Snyder.

Los Angeles—Investigation of bribery charges growing out of the trial of James B. McNamara, dynamiter, probably will be taken up by a new grand jury, which will convene before Jan. 6, the date set for the second trial of Clarence S. Darrow.



THE CAR JUMPER!

It is SO easy to wait until the car stops before getting off.

It is SO hard to patch a broken skull or recover from a broken hip.

The poor fellow said (when he was able to say anything) that he had jumped from a moving car a thousand times—in fact he had taken a pride in gracefully stepping off, always while the car was in motion.

But this one time he was a little awkward and a banana peel helped to do the business.

There is always a "one time" for a car jumper, and he is sure to get what is coming to him sooner or later.

Why jeopardize your life and the welfare of your family by running such risks?

And while you are thinking on this subject do not fail to warn your wife and son and daughter and employees never to jump from or upon a moving car.

WAIT TILL THE CAR STOPS—STOPS PERFECTLY STILL!

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